

INVESTIGATOR'S ANNUAL REPORT

United States Department of the Interior National Park Service

All or some of the information you provide may become available to the public.

OMB # (1024-0236) Exp. Date (11/30/2010) Form No. (10-226)

Reporting Year: 2006	Park: Shenandoah NP					Select the type of permit this report addresses: Scientific Study		
Name of principal investigator or responsible official: Kurt Reinhart					Office Phone: (812) 855-1674			
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Bloomington, IN 47405- Bloomington, IN 47405-3700 US								
Additional investigator No co-investigators	rs or key field as	ssistants (firs	t name, last nam	ne, office pl	hone, offi	ce email		
Project Title (maximu The Role of Soil-bor		,	ics and Disease					
			red Permit #: Permit S 6-SCI-0015 Sep 18, 2		tart Date: 2006		Permit Expiration Date: Dec 31, 2008	
Scientific Study Starting Date: Sep 18, 2006				Estimated Scientific Study Ending Date: Dec 31, 2006				
For either a Scientific Study or a Science Education Activity, the status is:			For a Scientific Study that is completed, please check each of the following that applies:					
Continuing			A final report has been provided to the park or will be provided to the park within the next two years					
				of field note en provided			s, or other study records, as agreed,	
			All collected and retained specimens have been cataloged into the NPS catalog system and NPS has processed loan agreements as needed					
Activity Type: Inventory								
Subject/Discipline: Soils								

Purpose of Scientific Study or Science Education Activity during the reporting year (maximum 4000 characters):

The objective of this project is to create a long term collection of soil-borne pathogen isolates (primarily Pythium spp.) from the eastern United States. Seedlings will be used to isolate soil-borne pathogens which will be maintained in long term cultures. Future experiments will test the host-specificity of the isolates. These isolates will be maintained in a long term culture and will likely be used further down the road in additional experiments regarding large-scale biogeographical variation in pathogen virulence (e.g. latitudinal variation) and the effect of climate change on forest disease.

Findings and status of Scientific Study or accomplishments of Science Education Activity during the reporting year (maximum 4000 characters):

I have performed pathogen isolations on over 100 samples from throughout the eastern USA and have established long term cultures. Experiments and other studies using these isolates are currently on hold.

For Scientific Studies (not Science Education Activities), were any specimens collected and removed from the park but not destroyed during analysis?

Yes

If "Yes", identify where the specimens currently are stored:

They are currently stored at Indiana University.

Funding specifically used in this park this reporting year that was provided by NPS (enter dollar amount):

Funding specifically used in this park this reporting year that was provided by all other sources (enter dollar amount): ${}^{\circ}$

List any other U.S. Government Agencies supporting this study or activity and the funding each provided this reporting year:

Paperwork Reduction Act Statement: A federal agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. Public reporting for this collection of information is estimated to average 1.625 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the forms. Direct comments regarding this burden estimate or any aspect of this form to Dr. John G. Dennis, Natural Resources (3127 MIB), National Park Service, 1849 C Street, N.W., Washington, DC 20240.